

Title (en)
Human manganese superoxide dismutase (hMn-SOD).

Title (de)
Humane Mangan-Superoxiddismutase (hMn-SOD).

Title (fr)
Manganèse-superoxyde dismutase humaine (hMn-SOD).

Publication
EP 0676472 A1 19951011 (DE)

Application
EP 95107460 A 19880310

Priority
• DE 3708306 A 19870314
• DE 3717695 A 19870526
• DE 3722884 A 19870710
• DE 3744038 A 19871224
• EP 88103754 A 19880310

Abstract (en)
New recombinant human manganese superoxide dismutase (MnSOD) in tetrameric form consisting of 1 or 2 amino acid sequences (both 198 amino acids, differing only at position 29, Lys or Gln) reproduced in the specification. Also new are: (1) DNA (I) encoding all, or an essential part of MnSOD; also natural or (semi) synthetic sequences encoding related MnSOD; (2) replicable vectors including (I); (3) host cells contg. (I), partic. as a vector.

Abstract (de)
Gegenstand der vorliegenden Erfindung ist ein gentechnologisches Verfahren zur Herstellung von Human Mn-Superoxiddismutase (hMn-SOD), die DNA-Sequenzen, die für dieses Enzym codieren, geeignete Vektoren, die diese DNA-Sequenzen enthalten und Wirtszellen, die diese DNA-Sequenzen exprimieren können, sowie das Enzym hMn-SOD selbst. Vorschläge zur Verwendung dieses Enzyms werden außerdem beschrieben.

IPC 1-7
C12N 15/53; C12N 9/02; C12N 15/74; C12N 15/79; C12N 1/21; C12N 1/19

IPC 8 full level
C12N 1/20 (2006.01); **A61K 38/44** (2006.01); **A61K 38/45** (2006.01); **A61P 29/00** (2006.01); **A61P 37/08** (2006.01); **C07H 21/04** (2006.01); **C07K 14/00** (2006.01); **C12N 1/16** (2006.01); **C12N 1/19** (2006.01); **C12N 1/21** (2006.01); **C12N 9/02** (2006.01); **C12N 15/09** (2006.01); **C12N 15/53** (2006.01); **C12N 15/62** (2006.01); **C12P 21/00** (2006.01); **C12R 1/19** (2006.01); **C12R 1/865** (2006.01); **C12R 1/91** (2006.01)

CPC (source: EP KR US)
A61P 29/00 (2018.01 - EP); **A61P 37/08** (2018.01 - EP); **C12N 9/0089** (2013.01 - EP US); **C12N 15/00** (2013.01 - KR); **C12N 15/625** (2013.01 - EP US); **C07K 2319/02** (2013.01 - EP US); **C07K 2319/07** (2013.01 - EP US)

Citation (search report)
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• [DX] DONATELLA BARRA ET AL.: "The primary structure of human liver manganese superoxide dismutase.", JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 259, no. 20, 25 October 1984 (1984-10-25), MD US, pages 12595 - 12601

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US6171856B1; WO9906059A3; WO0172327A3; WO0188084A3

Designated contracting state (EPC)
AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)
EP 0282899 A2 19880921; EP 0282899 A3 19891115; EP 0282899 B1 19960110; AT E132902 T1 19960115; AU 1302788 A 19880915; AU 618526 B2 19920102; CA 1341387 C 20020903; DE 3854872 D1 19960222; DK 133388 A 19880915; DK 133388 D0 19880311; EP 0676472 A1 19951011; ES 2083357 T3 19960416; FI 881185 A0 19880314; FI 881185 A 19880915; GR 3019091 T3 19960531; HU 212920 B 19961230; HU T46739 A 19881128; IE 71940 B1 19970312; IE 880717 L 19880914; IE 960190 L 19880914; IL 85701 A0 19880831; JP 2860100 B2 19990224; JP S6463383 A 19890309; KR 880011339 A 19881027; MX 9203619 A 19920901; NO 176884 B 19950306; NO 176884 C 19950614; NO 881089 D0 19880311; NO 881089 L 19880915; PT 86955 A 19880401; PT 86955 B 19920630; US 5240847 A 19930831; US 5436162 A 19950725; US 5589371 A 19961231

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EP 88103754 A 19880310; AT 88103754 T 19880310; AU 1302788 A 19880311; CA 561228 A 19880311; DE 3854872 T 19880310; DK 133388 A 19880311; EP 95107460 A 19880310; ES 88103754 T 19880310; FI 881185 A 19880314; GR 960400511 T 19960223; HU 120488 A 19880314; IE 71788 A 19880311; IE 960190 A 19880311; IL 8570188 A 19880311; JP 5810888 A 19880311; KR 880002652 A 19880314; MX 9203619 A 19920626; NO 881089 A 19880311; PT 8695588 A 19880311; US 16726188 A 19880311; US 41336795 A 19950330; US 94524092 A 19920915